

ABSTRACT

The present invention provides an electric power steering apparatus for controlling a motor based on a current command value calculated from a steering assist command value calculated based on a steering torque generated in a steering shaft and from a current detection value of the motor which gives a steering mechanism a steering assist force. In order to realize ideal road information sensitivity and steering feeling in frequency region at the same time, the electric power steering apparatus comprises a torque filter for processing a torque signal, an SAT estimating function, and an SAT filter for signal-processing SAT information from the SAT estimating function, and the electric power steering apparatus also comprises a control system with two degree of freedom which is capable of independently designing frequency characteristics of steering feeling and road information sensitivity.